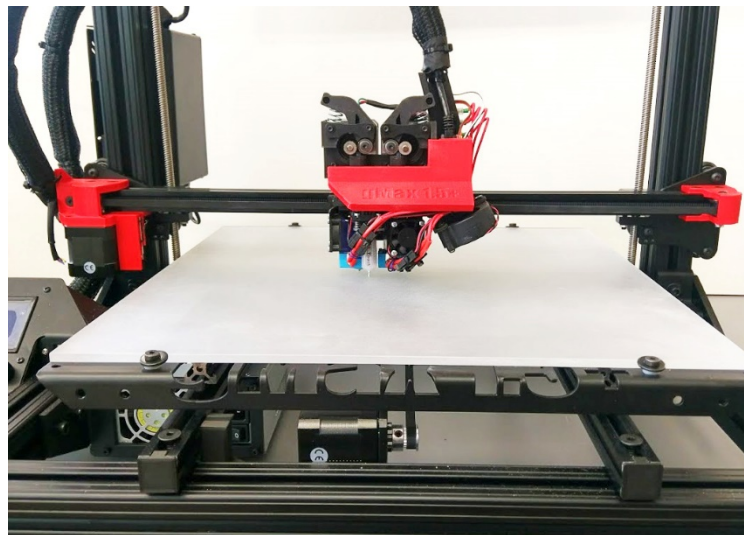# Dual Extruder Leveling Guide
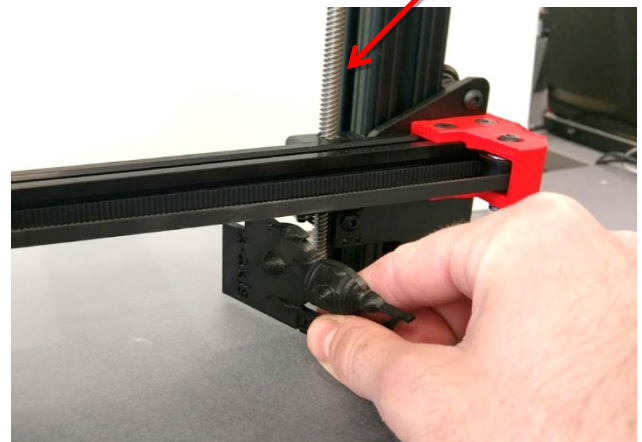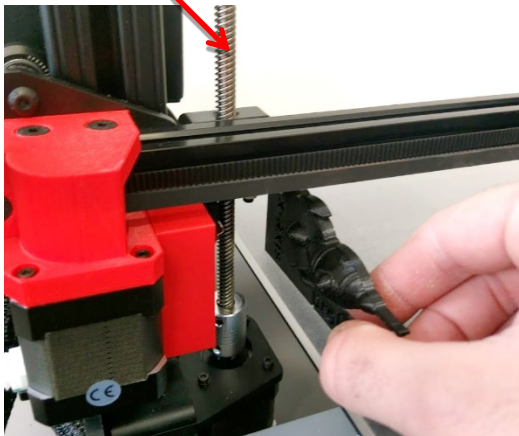
Used to level the dual extruder relative to the bed.

1. Run the "gCreate Files > DUAL EXTRUDER > DUAL Extruder Leveling" gcode file. This file will print two lines, one for each hotend, so you can determine if one hotend is lower than the other. The lines should be the same width from one nozzle to the other. If they are, no need to continue.

2. Ensure the x-axis is level. Go to "Prepare > Auto Home". Then "Prepare > Disable Steppers"

3. Use the "gMax First Print" print from the getting started guide to slide under the left and right side of the rail. Then manually turn the lead screw until both sides touch the print.
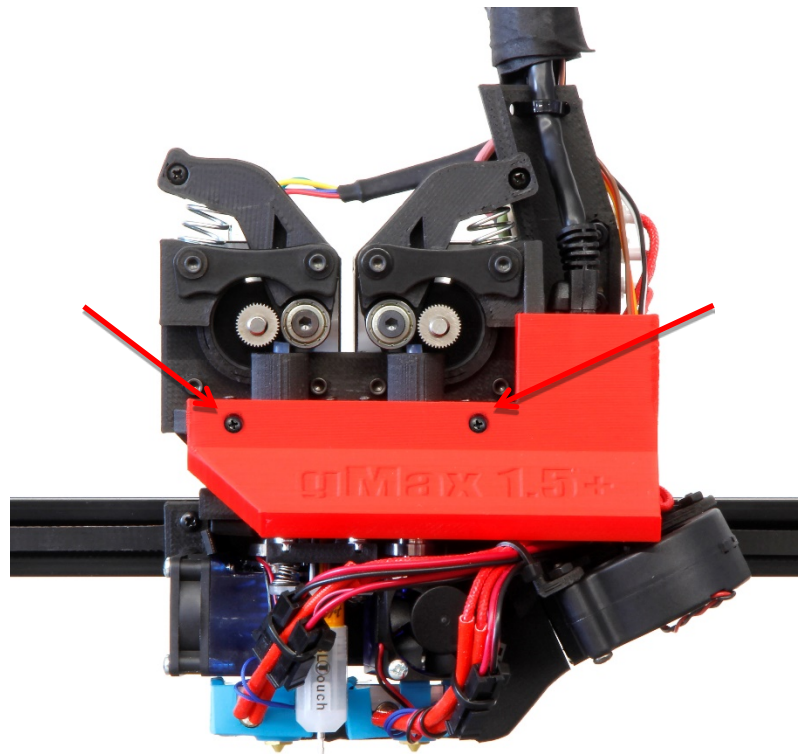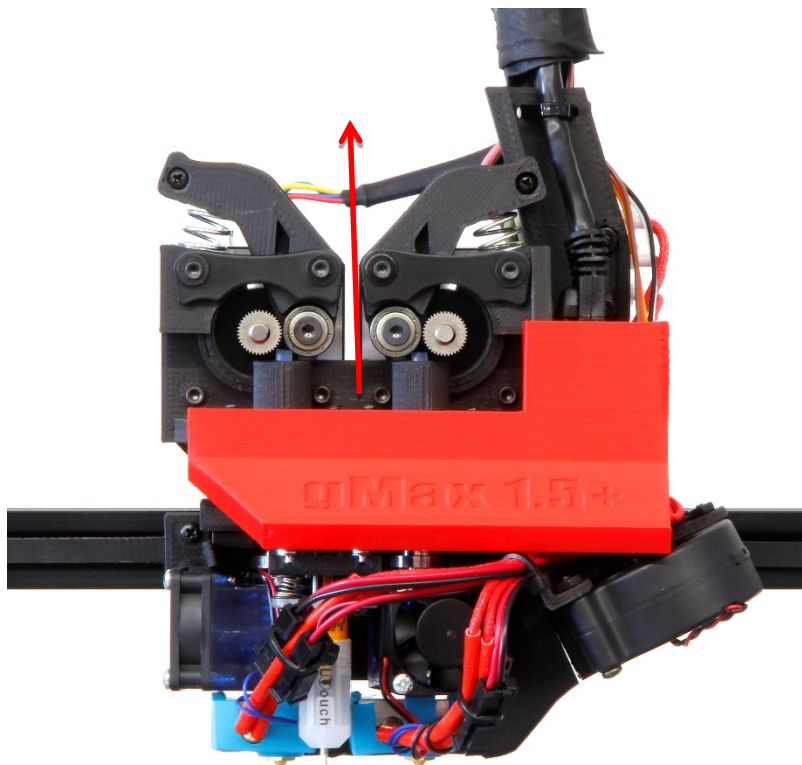

Manually turn lead screw

Manually turn lead screw

4. Remove the bolts holding the LED light bar in place. For printers shipped after 8/8/2017, the LED cover design has changed. To remove it, simply slide it up.
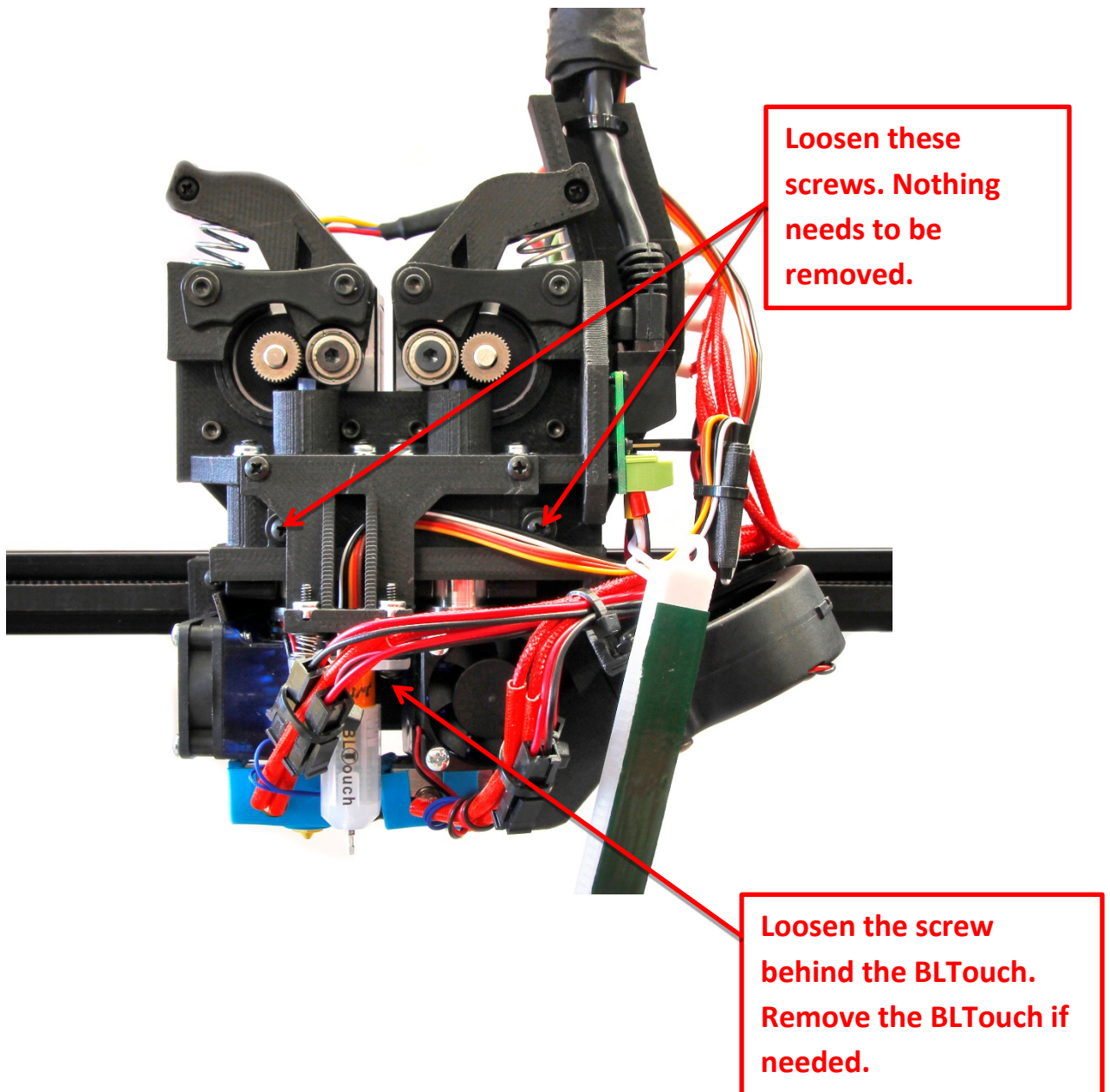
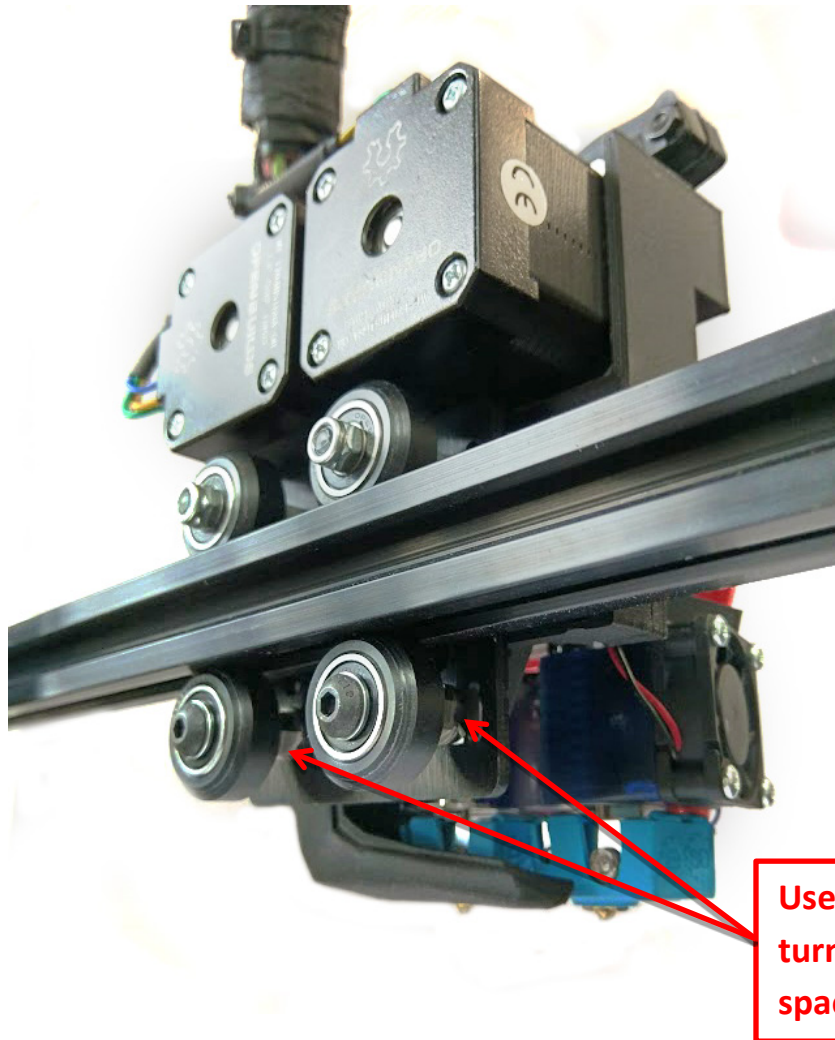*LED light bar with mounting screws*

New light bar without screws

5. Locate the 3 screws in the diagram below. Loosening these screws will allow you to tilt the extruder to the left or right. Once you are happy with the height, tighten the screws to lock it in place.

Loosen these screws. Nothing needs to be removed.

Loosen the screw behind the BLTouch. Remove the BLTouch if needed.

6. Additionally, you may need to adjust the eccentric spacers on the x-axis plate. Adjusting the left or right spacer will tighten the wheel against the rail but also tilt the extruder. Use an M8 wrench to turn the spacer.

Use M8 wrench to turn the eccentric spacers.

7. Run the test file again to see the results.

8. If the extruder is now level, re-install the LED light bar.